SCHOOL SCIENCE AND MATHEMATICS
INDEX TO VOLUME XLVIII
1978

INDEX BY TITLES

A

AEIO and You—BRUCE WILLIAMSON 37
American Science from Franklin to Jackson: An Overview, The Beginning of—CHARLES W. HARPER 53
Angles on Measuring Angles, Different—ERNEST WOODWARD 385
Application of Mathematics to Students who Aspire to Major in the Biological, Behavioral and Social Sciences, On the Teaching of—ARON PINKER 635
Applications—Where Are You?—CARL S. JOHNSON and JACKSON A. BYARS ... 289
Area (Measurement Corner)—MELFRIED OLSON 163
Arithmetic Drill, Some Manipulative Activities for—JOHN L. GINTHER 152
Attitude Change, The Urban Science Intern Teaching Project: Fostering—FRANCIS P. COLLEA 147
Attitude Scales for Ninth Grade Science, Some—BARRY J. FRASER 379
Attitude Toward Science, The Effects of the Science Curriculum Improvement Study Upon a Child's—GERALD H. KROCKOVER and MARSHALL D. MALCOLM 575

B

Binary Artistry: A Mathematics Learning Center—NICHOLAS J. VIGILANTE 281
Bioethics in the Secondary Curriculum, A Case for—CHARLES R. BARMAN and JOHN JAY RUSCH 3
Biology Teachers Relative to Teaching Cardiovascular Disease and Associated Risk Factors, A Survey of Needs of Texas—ROBERT C. WHITE, ARMIN D. WEINBERG and EUGENE L. CHIAPETTA 559
Books and Teachings Aids Received 88, 178, 359, 450, 538, 628, 719
Book Reviews:
Chemistry and Life: An Introduction to General, Organic, and Biological Chemistry, by John W. Hill and Dorothy M. Feigl—GEORGE G. MALLINSON 632
Experimental Oceanography, by Sam Kelley—GEORGE G. MALLINSON 90
40 Mathgrams in Basic Algebra (Spirit Masters), by Carl D. Hicks—JOE KENNEDY 632
Human Sex and Sexuality with a Dictionary of Sexual Terms, by Edwin B. Steen and James H. Price—GEORGE G. MALLINSON 542
Introduction to Radio Astronomy, An, by John Potter Shields—GEORGE G. MALLINSON 90
Long Ago Lake, The, by Marne Wilkins—JACQUELINE V. MALLINSON 722

Mathematics Encyclopedia, by Max S. Shapiro (Ed.)—JOE KENNEDY 362
Moscow Puzzles, The, by Boris A. Kordemsky—JOE KENNEDY 362
100 Numerical Games, by Pierre Berloquin—ROBERT MCGINTY 180
Physics: Principles and Problems, by James T. Murphy and Robert C. Smoot—DANIEL J. RECORD 721
Solar Cells and Photocells, by Rufus P. Turner—GEORGE G. MALLINSON 90
Twenty Years of Science and Mathematics Curriculum Development, by David J. Lockard (Ed.)—GEORGE G. MALLINSON 452
Yes, No, Stop, Go, Some Patterns in Mathematical Logic, by Judith L. Gersting and Joseph E. Kuczkowski—JOE KENNEDY 542
Book Vignettes 88, 179, 360, 451, 541, 631, 720

C

Calculator Functions, The New World of—JAIME S. MICHELOW and BRUCE R. VOGELI 248
Calculator Usage in Schools: A Survey of Parents' and Teachers' Attitudes Toward—BERNARD R. YVON and DAVIS A. DOWNING 410
Calculators Give Rise to a New Need for Skills in Algebra, How—JAMES E. SCHULTZ 131

INCORRECT VOLUME NUMBER
FOR 1978 INDEX SHOULD READ
VOLUME 78

Calculators: Their Use in the Classroom—GREGORY AIDALA 307
Calculators with Children Ages 5-7, Four Mini-Experiments, Using Electronic—JOSEPH P. SCANDURA, GEORGE F. LOWERRE, ALICE N. SCANDURA and JACQUELINE VENESKI 545
Calculators with Third and Fourth Graders—A Feasibility Study, Using Electronic—GEORGE F. LOWERRE, ALICE N. SCANDURA, JOSEPH M. SCANDURA and JACQUELINE VENESKI 461
Career Education—Out With the New Math?—HARRY B. TUNIS 142
Celsius, On to—MARY H. WILLIAMS 697
Cloze for Classroom Mathematics Materials, Some Comments on the Use of the—MAX W. BOYCE 9
Communication Between the Science Educator and the Elementary Classroom Teacher: What is the State of the Art?—ALFRED DE VITO and GERALD H. KROCKOVER 157

D

Disciplines and Their Structures: A Review of the Proposal, The—JOHN C. THOMPSON III 608
Displacement Volume, An Indicator of Early Formal Thought: Developing a Paper-and- Pencil Test—JOHN W. RENNER, JOAN SUTHERLAND, ROALIE GRANT and ANTON W. LAWSON 297
Distance From a Point to a Line and a Point to a Plane Via Synthetic Methods—CHARLES M. BUNDRICK and DAVID L. SHERRY 304
Division of Fractions—Discovery and Verification—GAMAL A. ELASHHAB 159

E

Earth and the Calendar—WILLIAM D. JAMSKI 517
Editor's Page—GEORGE G. MALLINSON 1, 91, 181, 273, 363, 453, 543, 633
Elementary School Mathematics, Measurement and Logical Reasoning in—CHARLES E. LAMB 553
Euler Line by Paper Folding, Discovering the—LOREN L. HENRY 665
Evaluation Strategies for Real Problem Solving, Informal—ARTHUR K. ELLIS and JANET ALLEMAN-BROOKS 240
Exponential Growth and Population Prediction—BONNIE H. LITWILLER and DAVID R. DUNCAN 499

F

Fibonacci Sequence, Habits of Rabbits: Another Look at the—DAVID R. DUNCAN and BONNIE H. LITWILLER 371

G

Geometric Concepts of Elementary School Children, The Effect of Stimuli Input on the Acquisition of Introductory—LEON C. GREABELL 320
Googal of Atoms in the Universe?, Is There a—DARREL HOFF and ADRIAN HOFF 104
Graphical Solution of Certain Selected Problems, A—LINDSAY L. HESS and ADRIEN L. HESS 107
Green Version Biology Classes, Teacher Behavior and Student Learning in 15 BSCS—DARREL D. MULLINIX 400

H

Hexahedron, The—HENRY LULLI 518

Ideal Science Teacher, Science Educator's Perceptions of the—RODGER W. BYBEE 13
Individualized Math Program—CHARLES H. DYER, JR 99
"Individualized Science Program?, Yes, but . . ., Another"—PAUL A. REPICKY 93
Initial Test, Retest and Delayed Retest Performance on Three Competency Tasks, Relationship Among—RONALD K. ATWOOD and VIRGINIA A. ATWOOD 465
Intellectual Development Beyond Elementary School VI: Correlational Reasoning—HELEN ADI, ROBERT KARPLUS, ANTON LAWSON AND STEPHEN PULOS . 675

L

Least Common Multiple, Teaching the—BARBARA ELAINE BERNSTEIN 44

M

Math Lab Activities—DOUGLAS K. BRUMBAUGH and MICHAEL C. HYNES 79, 168, 349, 441, 523, 618, 710
Math 1, The Ups and Downs of—MICHEL NICOLA 585
Mathematical Ability—Is It a Masculine Trait?—GRACE M. BURTON 566
Mathematical Games: Some Considerations—ROBERT SOVCHIK and L. J. MECONI 340
Mathematics Achievement Subtests, The Contents of Two—MARYANN MERCER 669
Mathematics Application and Real Problem Solving, On—HENRY O. POLLAK .. 232
Mathematics Classroom Procedures—A Student's Perspective—DAVID L. PAGNI 702
Mathematics Major, What Does Industry Really Want in a?—JAMES C. GUSSETT 472
Mathematics Word Search—ALAN SOSLOW 520
Measurement and Partition Division, Disposition of Pre-Service Elementary Teachers Related to—FLOYD VEST 335
Measurement Corner—ROBERT TODD and THOMAS TEATES 76, 163, 435, 525, 615, 705
Measurement with Graphs, Representing and Comparing (Measurement Corner)—ALVIN M. PETTUS 525
Mendel's Laws, Using Chichlids for Illustrating—EUGENE D. GENNARO and CHARLOTTE M. WINTERS 287
Meter Tape, Make a—WILLIAM D. SMITH and GARVEY L. DARRIN 365
Metric Education, Need for In-Service and Pre-Service—JOHN H. TRENT 45
Metric Platform Balance for the Classroom, A—CLARENCE H. ROCKWELL and DAN TREDWAY 509
Metrication, Elementary School Preparedness for—DARREL W. FYFFE 643
Metrics, Hands-on Activities with—EVAN MCFEE 293
Minority Participation in Science, Cooperative Support—A Model to Increase—MELVIN O. SMITH 315
Modern Mathematics: Perceptions of Secondary Mathematics Department Chairpersons—J. PHILLIP BENNETT 691

N

Nature in Africa and the United States, Teaching About—T. D. CONKRIGHT ... 503
Note on $\lim_{t} \frac{\sin t}{t}$, A—CHARLES V. PEELE and JAMES R. KELLER 42
Numeration: Arithmetic on a Checkerboard—Numerals for the Blind, Notes on—PHILLIP S. JONES 481

O

Odd Ball—A Classical Weighing Problem Computerized, Finding the—JOHN O. KILTINEN and DENNIS TASSON 275
Optimal Search Plans—JACK HACHIGIAN 217

P

Palindromic Numbers Can Liven Up Your Classroom—ROBERT L. MCGINTY and THEODORE A. EISENBERG 431
Pendulum—A Demonstration of Energy Conservation, The Coupled—DANIEL J. RECORD 455
Piaget in Perspective—JERRY J. DOYLE AND VINCENT N. LUNETTA 475
Probability, Basic Concepts of—What Do People Know?—ROBERT E. REYS ... 649
Problem Department—N. J. KUENZI AND BOB PRIELIPP 81, 170, 353, 443, 532, 620, 712
Problem Solving and the Child—DORIS MERVIS 270
Problem Solving as it Relates to Mathematics Teaching in the Secondary School, Real Comprehensive—LELAND F. WEBB and DAVID H. OST 197
Problem Solving in Art and Mathematics—JANE NORMAN AND STEF STAHL 255
Problem Solving in Mathematics, Research on—JEREMY KILPATRICK 189
Problem Solving: It's History as a Focus in Curriculum Development—EDWIN P. WHITE 183
Public Education: "Scientific Concepts" in Relation to "Solution of Real Life Problems", Goals of—MOHAMMAD A. A. SHAMI and MARTIN HERSHKOWITZ 71
Pythagorean Triangle, The Area and Perimeter of a Primitive—ROBERT W. PRIELIPP 124

R

Reading Achievement of First and Third Grade Pupils, The Influence of Science Process Activities and Selected Science Reading Materials on—ANNE E. MERRICKS and ROBERT K. CROCKER 684
Research Evaluation—Let's Teach—JOE DAN AUSTIN 425
Research—Is it Feasible in the Early Childhood Classroom?—LLOYD M. BENNETT 127

S

Science and SECS, A Fun Day with—JAMES P. BARUFALDI, LOWELL J. BETHEL AND JOHN HUNTSBERGER 603
Science Curriculum Implementation: Iowa-ASSIST, A Model for—DANIEL S. SHELDON and ROBERT E. YAGER 489
Science Errors in the Communications Media—KENNETH BRADDOCK-ROGERS and KENNETH MACKENZIE BRADDOCK 593
Science Misconceptions, Changes in the Importance of Certain Popular—ROBERT H. GOLDSMITH 31
SI Units that are Products or Ratios (Part I—Measurement Corner)—GEORGE G. STONER 705
Simulation/Modeling as a Tool in Assessing Various Solutions—LUDWIG BRAUN and BETTY M. BECK 223
Small Group Learning in Junior High School Mathematics—NEIL DAVIDSON, LINDA AGREEN and CONNIE DAVIS 23
Solid Geometry in Chemistry—CHARLES A. ZUKOWSKI and PETER E. DEMMIN .. 388
SQUARE Dealing—HYMAN KAVETT and PHYLLIS F. KAVETT 419
SSMA Minutes of Business Meetings 346, 522
Stadia Tube, The (Math Lab Activity)—DAVID E. KULLMAN and KATIE GABEL.. 349
Students' Attitudes of a Good Mathematics Teacher—ANTHONY C. MAFFEI.... 312

T

Teacher as a Role Model in Problem Solving, The—BARRY M. CHERKAS 193
Teachers' Attitudes Toward Death-Related Issues—A. CORDELL PERKES 135
Teachers of Secondary School Mathematics, A Study of Needs for Further Learning as Seen by—DEAN HENDRICKSON and MILT VIRANT 655
Tetrahedrons, Nested—HENRY LULLI 408
Textbook Questioning Style, Development and Method for Use of an Instrument Designed to Assess—LAWRENCE F. LOWERY and WILLIAM H. LEONARD.... 393

U

Unified Science and Teacher's Conceptual Level—MICHAEL W. HEIKKINEN and TERRY ARMSTRONG 513
Unit Box for Secondary School Mathematics Teachers, A—DAVID E. KULLMAN. 374

V

Verbal Arithmetic Problems, A Literature Review: Thought Processes Employed in the Solution of—SHEILA K. HOLLANDER 327
Verbal Arithmetric Problems, A Review of Research Related to the Solution of—SHEILA K. HOLLANDER 59

W

Wait, Wait, Wait . . .—MARY BUDD ROWE 207
What's New in the Last 4000 Years?—DAVID RUDD 417

Z

Zen in the Art of Science Teaching—BILL ROMEY 115

SCHOOL SCIENCE AND MATHEMATICS
INDEX TO VOLUME XLVIII
1978

INDEX BY AUTHORS

A

ADI, HELEN, University of California, Berkeley, CA 94720 675
AGREEN, LINDA, Marley Junior High School, Glen Burrie, MD 21061 23
AIDALA, GREGORY, 18 Guilder Place, Ballston Lake, NY 12019 307
ALLEMAN-BROOKS, Janet, Michigan State University, East Lansing, MI 48823 .. 240
ARMSTRONG, TERRY, University of Idaho, Moscow, ID 83843 513
ATWOOD, RONALD K., University of Kentucky, Lexington, KY 40506 465
ATWOOD, VIRGINIA A., University of Kentucky, Lexington, KY 40506 465
AUSTIN, JOE DAN, Emory University, Atlanta, GA 30322 425

B

BARMAN, CHARLES R., University of Wisconsin, Superior, WI 54880 3
BARUFALDI, JAMES P., The University of Texas, Austin, TX 78712 603
BECK, BETTY M., USMES Project, Newton, MS 02160 223
BENNETT, LLOYD M., Texas Woman's University, Denton, TX 76204 127
BENNETT, J. PHILLIP, Mid-America Nazarene College, Olathe, KS 66061 691
BERNSTEIN, BARBARA ELAINE, Bowie State College, Bowie, MD 20715 44
BETHEL, LOWELL J., The University of Texas, Austin, TX 78712 603
BOYCE, MAX W., State College of Victoria, Toorak, Malvern, Victoria 3144, Austrailia 9
BRADDOCK, KENNETH MACKENZIE, 617 W. Miner St., West Chester, PA 19380 .. 593
BRADDOCK-ROGERS, KENNETH, 617 W. Miner St., West Chester PA 19380 593
BRAUN, LUDWIG, State University of New York, Stony Brook, NY 11790 223
BRUMBAUGH, DOUGLAS K., Florida Technological University, Orlando, FL 32816 ..... 79, 168, 441, 523, 618, 710
BUNDICK, CHARLES M., University of West Florida, Pensacola, FL 32504 304
BURTON, GRACE M., University of North Carolina, Wilmington, NC 28401 566
BYARS, JACKSON A., Kansas State University, Manhattan, KS 66506 289
BYBEE, RODGER W., Carleton College, Northfield, MN 55057 13

C

CHERKAS, BARRY M., Hunter College, City College of New York, New York, NY 10021 193
CHIAPETTA, EUGENE L., Baylor College of Medicine, Houston, TX 77030 559
COLLEA, FRANCIS P., California State University, Fullerton, CA 92634 147
CONKRIGHT, T. D., Control Data Corporation, Box O, Minneapolis, MN 55440. 503
CROCKER, ROBERT K., Memorial University of Newfoundland, St. John's, Newfoundland, Canada A1C 5S7 684

D

DARRIN, GARVEY L., James Madison University, Harrisonburg, VA 22801 365
DAVIDSON, NEIL, University of Maryland, College Park, MD 20742 23
DAVIS, CONNIE, Marley Junior High School, Glen Burnie, MD 21061 23
DEMMIN, PETER E., Amherst Central High School, Amherst, NY 14226 388
DE VITO, ALFRED, Purdue University, W. Lafayette, IN 47907 157
DOWNING, DAVIS A., Orono Junior-Senior High school, Orono, ME 04473 410
DOYLE, JERRY J., University of Iowa, Iowa City, IA 52242 475
DUNCAN, DAVID R., University of Northern Iowa, Cedar Falls, IA 50613 ..... 371, 499
DYER, CHARLES H., JR., Irvin High School, El Paso, TX 79925 99

E

EISENBERG, THEODORE A., Northern Michigan University, Marquette, MI 49855 431
ELASHHAB, GAMAL A., Saginaw Valley State College, University Center, MI 48710 159
ELLIS, ARTHUR K., University of Minnesota, Minneapolis, MN 55455 240

F

FRASER, BARRY K., Macquarie University, Sydney, Australia 379
FYFFE, DARREL W., Bowling Green State University, Bowling Green, OH 43403 643

G

GABEL, KATIE, Miami University, Oxford, OH 45056 349
GENNARO, EUGENE D., University of Minnesota, Minneapolis, MN 55455 287
GINTHER, JOHN L., Eastern Michigan University, Ypsilanti, MI 48197 152
GOLDSMITH, ROBERT H., St. Mary's College of Maryland, St. Mary's City, MD 20686 31
GRANT, ROALIE, University of Oklahoma, Norman, OK 73069 297
GREABELL, LEON C., University of South Florida, Tampa, FL 33620 320
GUSSETT, JAMES C., Longwood College, Farmville, VA 23901 472

H

HACHIGIAN, JACK, Hunter College, City University of New York, New York, NY 10021 217
HARPER, CHARLES W., North Carolina State University, Raleigh, NC 27607 ... 53
HEIKKINEN, MICHAEL W., University of Idaho, Moscow, ID 83843 513
HENDRICKSON, DEAN, University of Minnesota, Duluth, MN 55812 655
HENRY, LOREN L., Auburn University, Auburn, AL 36830 665
HERSHKOWITZ, MARTIN, Hershkowitz Associates, Silver Spring, MD 20903 71
HESS, ADRIEN L., Montana State University, Bozeman, MT 59715 107
HESS, LINDSAY L., Federal Bureau of Mines, Grand Forks, ND 58201 107
HOFF, ADRIAN, Northern University High School, Cedar Falls, IA 50613 104
HOFF, DARREL, University of Northern Iowa, Cedar Falls, IA 50613 104
HOLLANDER, SHEILA K., 3681 N.W. 114 Ave., Coral Springs, FL 33065 ..... 59, 327
HUNTSBERGER, JOHN P., University of Texas, Austin, TX 78712 603
HYNES, MICHAEL C., Florida Technological University, Orlando, FL 32816 ..... 79, 168, 441, 523, 618, 710

J

JAMSKI, WILLIAM D., Indiana University, Southeast, New Albany, IN 47150 ... 517
JOHNSON, CARL S., Marshall University, Huntington, WV 25701 289
JONES, PHILLIP S., University of Michigan, Ann Arbor, MI 48109 481

K

KARPLUS, ROBERT, University of California, Berkeley, CA 94720 675
KAVETT, HYMAN, Richmond College, City University of New York, St. George, Staten Island, New York, NY 10301 419
KAVETT, PHYLLIS F., Kean College of New Jersey, Union, NJ 07083 419
KELLER, JAMES R., Marshall University, Huntington, WV 25701 42
KENNEDY, JOE, Miami University, Oxford, OH 45056 ..... 362, 542, 632
KILPATRICK, JEREMY, University of Georgia, Athens, GA 30602 189
KILTINEN, JOHN O., Northern Michigan University, Marquette, MI 49885 275
KROCKOVER, GERALD, Purdue University, West Lafayette, IN 47907 ..... 157, 575
KUENZI, N. J., University of Wisconsin, Oshkosh, WI 54901 ..... 81, 170, 353, 443, 532, 620, 712
KULLMAN, DAVID E., Miami University, Oxford, OH 45056 ..... 349, 374

L

LAMB, CHARLES E., University of Texas, Austin, TX 78712 533
LAWSON, ANTON E., Arizona State University, Tempe, AZ 85281 ..... 297, 675
LEONARD, WILLIAM H., University of California, Berkeley, CA 94720 393
LITWILLER, BONNIE, University of Northern Iowa, Cedar Falls, IA 50613 ..... 371, 499
LOWERRE, GEORGE F., MERGE Research Institute, 1249 Greentree Lane, Narberth, PA 19072 ..... 461, 545
LOWERY, LAWRENCE F., University of California, Berkeley, CA 94720 393
LULLI, HENRY, John C. Freemont High School, 7676 S. San Pedro, Los Angeles, CA 90003 ..... 408, 518
LUNETTA, VINCENT N., University of Iowa, Iowa City, IA 52242 475

M

MAFFEI, ANTHONY C., William Paterson College of New Jersey, Wayne, NJ 07470 312
MALCOLM, MARSHALL D., Louisiana State University, Baton Rouge, LA 70803 . 575
MALLINSON, GEORGE G., Western Michigan University, Kalamazoo, MI 49008 ..... 1,90, 91, 273, 363, 452, 453, 542, 543, 632, 633
MALLINSON, JACQUELINE V., Western Michigan University, Kalamazoo, MI 49008 722
McFEE, EVAN, Bowling Green State University, Bowling Green, OH 43403 293
McGINTY, ROBERT L., Northern Michigan University, Marquette, MI 49855 ... 180, 431
MECONI, L. J., University of Akron, Akron, OH 44325 340
MERCER, MARYANN, Rutgers—The State University, New Brunswick, NJ 08903. 669
MERRICKS, ANNE R., Memorial University of Newfoundland, St. John's, Newfoundland, Canada A1C 5S7 684
MERVIS, DORIS, P. S. 146, 421 E. 106th St., New York, NY 10029 270
MICHELOW, JAIME S., Universidad Tecnica del Estado, Santiago, Chile 248
MULLINIX, DARREL D., John Glenn High School, Westland, MI 48185..... 400

N

NICOLA, MICHEL, Shimer College, Mount Carroll, IL 61053..... 585
NIMAN, JOHN, Hunter College, City University of New York, New York, NY 10021..... 181
NORMAN, JANE, The Metropolitan Museum of Art, New York, NY 10028 255

O

OLSON, MELFRIED, University of Wyoming, Laramie, WY 82070 163
OST, DAVID H., California State College, Bakersfield, CA 93309 197

P

PAGNI, DAVID L., California State University, Fullerton, CA 92634 702
PEELE, CHARLES V., Marshall University, Huntington, WV 25701 42
PERKES, A. CORDELL, George Mason University, Fairfax, VA 22030 135
PETTUS, ALVIN M., Virginia Polytechnic Institute and State University, Blacksburg, VA 24601 525
PINKER, ARON, Frostburg State College, Frostburg, MD 21532..... 635
POLLAK, HENRY O., Bell Telephone Labs, Murray Hill, NJ 07911..... 232
PRIELIPP, BOB, University of Wisconsin, Oshkosh, WI 54901 ..... 81, 124, 170, 353, 443, 532, 620, 712
PULOS, STEPHEN, University of California, Berkeley, CA 94720 675

R

RECORD, DANIEL J., Portland High School, Portland, CN 06480 ..... 455, 721
RENNER, JOHN W., University of Oklahoma, Norman, OK 73069..... 297
REPICKY, PAUL A., University of Southern California School of Medicine, Los Angeles, CA 90033 93
REYS, ROBERT E., University of Missouri, Columbia, MO 65201 649
ROCKWELL, CLARENCE H., Western State College, Gunnison, CO 81230..... 509
ROMEY, BILL, St. Lawrence University, Canton, NY 13617..... 115
ROWE, MARY BUDD, University of Florida, Gainesville, FL 32611..... 207
RUDD, DAVID, Old Dominion University, Norfolk, VA 23508..... 417
RUSCH, JOHN JAY, University of Wisconsin, Superior, WI 54880 3

S

SCANDURA, ALICE N., MERGE Research Institute, 1249 Greentree Lane, Narberth, PA 19072 ..... 461, 545
SCANDURA, JOSPEH M., MERGE Research Institute, 1249 Greentree Lane, Narberth, PA 19072 ..... 461, 545
SCHULTZ, JAMES E., The Ohio State University, Columbus, OH 43210..... 131
SHAMI, MOHAMMAD A. A., King Abd Ul-Aziz University, Mecca, Saudi Arabia . 71
SHELDON, DANIEL S., University of Iowa, Iowa City, IA 52242..... 489
SHERRY, DAVID L., University of West Florida, Pensacola, FL 32504..... 304
SMITH, MELVIN O., Norfolk State College, Norfolk, VA 23504..... 315
SMITH, WILLIAM D., James Madison University, Harrisonburg, VA 22801..... 365

SOSLOW, ALAN, Edison High School, 8th St. and Lehigh, Philadelphia, PA 19133 520
SOVCHIK, ROBERT, University of Akron, Akron, OH 44325 340
STAHL, STEF, Metropolitan Museum of Art, New York, NY 10028 255
STONER, GEORGE G., Textile Research Institute, Princeton, NJ 08540 705
SUTHERLAND, JOAN, University of Oklahoma, Norman, OK 73069 297

T

TASSON, DENNIS, National Mine Middle School, National Mine, MI 49865 275
TEATES, THOMAS G., Virginia Polytechnic Institute and State University, Blacksburg, VA 24061 ..... 76, 163, 435, 525, 615, 705
THOMPSON, JOHN C., III, Pennsylvania State University, University Park, PA 16802 608
TODD, ROBERT M., Virginia Polytechnic Institute and State University, Blacksburg, VA 24061 ..... 76, 163, 435, 525, 615, 705
TREDWAY, DAN, Western State College, Gunnison, CO 81230 509
TRENT, JOHN H., University of Nevada, Reno, NV 89507 45
TUNIS, HARRY B., National Council of Teachers of Mathematics, Reston, VA 22091 142

V

VENESKI, JACQUELINE, MERGE Research Institute, 1249 Greentreen Lane, Narberth, PA 19072 ..... 461, 545
VEST, FLOYD, North Texas State University, Denton, TX 76203 335
VIGILANTI, NICHOLAS J., Florida International University, Miami, FL 33199 ... 281
VIRANT, MILT, University of Minnesota, Duluth, MN 55812 655
VOGELI, BRUCE R., Teachers College, Columbia University, New York, NY 10027 248

W

WEBB, LELAND F., California State College, Bakersfield, CA 93309 197
WEINBERG, ARMIN D., Baylor College of Medicine, Houston, TX 77030 559
WHITE, EDWIN P., State Department of Education, Richmond, VA 23216 183
WHITE, ROBERT C., Baylor College of Medicine, Houston, TX 77030 559
WILLIAMS, MARY H., University of Nebraska, Lincoln, NB 68508 697
WILLIAMSON, BRUCE, University of Wisconsin, River Falls, WI 54022 37
WINTERS, CHARLOTTE M., Humboldt High School, St. Paul, MN 55111 287
WOODWARD, ERNEST, Austin Peay State University, Clarksville, TN 37040 385

Y

YAGER, ROBERT E., University of Iowa, Iowa City, IA 52242 489
YVON, BERNARD R., University of Maine, Orono, ME 04473 410

Z

ZUKOWSKI, CHARLES A., Amherst Central High School, Amherst, NY 14226 ... 388